CLAIMS

What is claimed is:

1. An electronic module suitable for use in connection with a host device

that includes a port, the electronic module being configured to interface with

corresponding structure of the port so as to be removably positioned within the port, and

the electronic module comprising:

a printed circuit board having circuitry configured to interface with the

host device when the module is operatively received within the port;

an end connector in communication with at least some of the circuitry

and being configured to interface with the port;

a housing including a pair of opposing sidewalls that cooperate to at least

partially enclose the printed circuit board; and

a latch mechanism attached at least indirectly to the sidewalls of the

housing and comprising:

a pair of opposing sliders, each of which is at least partially

received in a respective opposing sidewall of the housing, and the sliders

being collectively configured and arranged to facilitate selective

engagement of the module with the corresponding structure of the port;

and

a bail attached to the sliders and to the opposing sidewalls, and

the bail being configured and arranged such that motion of the bail

results in a corresponding motion of the sliders.

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2. The electronic module as recited in claim 1, wherein the bail is movable between a first position wherein the electronic module is removably latched to the port.

and a second position wherein the electronic module is unlatched from the port.

3. The electronic module as recited in claim 2, wherein the bail is rotatably

attached to the sliders, and wherein the bail is configured for both translational and

rotational motion relative to the sidewalls.

4. The electronic module as recited in claim 1, wherein a rotational motion

of the bail corresponds to substantially linear motion of the sliders.

5. The electronic module as recited in claim 1, further comprising at least

one resilient element configured and arranged to bias the bail into a desired position.

6. The electronic module as recited in claim 1, further comprising a

'receive' optical subassembly and 'transmit' optical subassembly, both of which are in

communication with the circuitry.

7. The electronic module as recited in claim 1, wherein the module

substantially conforms to the XFP standard.

8. A latch mechanism suitable for use in connection with an electronic

module having a housing configured to be selectively received within a port of a host

device, the latch mechanism configured to interact with corresponding structure of the

port and comprising:

a pair of opposing sliders, each of which is at least partially

received in the housing of the module, and the sliders being collectively

configured and arranged to facilitate selective engagement of the module with

the corresponding structure of the port; and

a bail attached to the sliders and to the housing of the module, the bail

being configured and arranged such that motion of the bail results in a

corresponding motion of the sliders, and the bail being movable between a first

position wherein the electronic module is removably latched to the port, and a

second position wherein the electronic module is unlatched from the port.

9. The latch mechanism as recited in claim 8, wherein the sliders are

configured and arranged to move in unison under the influence of the bail.

10. The latch mechanism as recited in claim 8, wherein a rotational motion

of the bail corresponds to substantially linear motion of the sliders.

11. The latch mechanism as recited in claim 8, wherein the bail comprises a

set of inner pins and a set of outer pins, the set of inner pins being configured to be

rotatably connected to the housing of the module, and the set of outer pins being

rotatably connected to the sliders.

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12. The latch mechanism as recited in claim 8, further comprising at least one resilient element configured and arranged to bias the bail into a desired position.

13. An opto-electronic module suitable for use in connection with a host device that includes a port, the opto-electronic module being configured to interface

with corresponding structure of the port so as to be removably positioned within the

port, and the opto-electronic module comprising:

a 'receive' optical subassembly;

a 'transmit' optical subassembly;

a printed circuit board having circuitry in communication with the

'receive' and 'transmit' optical subassemblies, and being configured to

interface with the host device when the opto-electronic module is operatively

received within the port;

an end connector in communication with at least some of the circuitry

and being configured to interface with the port;

a housing including a pair of opposing sidewalls that cooperate to at least

partially enclose the printed circuit board and the 'receive' and 'transmit' optical

subassemblies; and

a latch mechanism attached at least indirectly to the sidewalls of the

housing and comprising:

a pair of opposing sliders, each of which is at least partially

received in a respective opposing sidewall of the housing, and the sliders

being collectively configured and arranged to facilitate selective

engagement of the module with the corresponding structure of the port;

and

a bail rotatably attached to the sliders and also rotatably attached

to the opposing sidewalls, and the bail being configured and arranged

such that rotation of the bail results in linear motion of the sliders.

14. The opto-electronic module as recited in claim 13, wherein the bail is

movable between a first position wherein the electronic module is removably latched to

the port, and a second position wherein the electronic module is unlatched from the

port.

15. The opto-electronic module as recited in claim 13, further comprising at

least one resilient element configured and arranged to bias the bail into a desired

position.

16. The opto-electronic module as recited in claim 15, wherein the at least

one resilient element is configured and arranged to bias the bail into a first position

wherein the electronic module is removably latched to the port.

17. The opto-electronic module as recited in claim 13, wherein the opto-

electronic module substantially conforms to the XFP standard.

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18. A latch mechanism suitable for use in connection with an electronic

module conforming to the XFP standard, the electronic module having a housing that

includes opposing sidewalls and is configured to be selectively received within a port of

a host device, the latch mechanism configured to interact with corresponding structure

of the port and comprising:

a pair of opposing sliders, each of which is received in a

corresponding sidewall of the module and each of which is configured and

arranged for translational motion relative to the sidewall, and the sliders being

collectively configured and arranged to facilitate selective engagement of the

module with the corresponding structure of the port;

a bail attached to the sliders and to the housing of the module, the bail

being configured and arranged such that motion of the bail results in a

corresponding motion of the sliders, and the bail being movable between a first

position wherein the electronic module is removably latched to the port, and a

second position wherein the electronic module is unlatched from the port; and

a pair of resilient elements, each of the resilient elements being retained

in a respective recess cooperatively defined by a slider and the housing of the

module, the pair of resilient elements being collectively configured and arranged

to bias the bail into a desired position.

19. The latch mechanism as recited in claim 18, wherein the bail is movable

between a first position wherein the sliders are engaged with the corresponding

structure of the port, and a second position wherein the sliders are disengaged from the

corresponding structure of the port.

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- 20. The latch mechanism as recited in claim 18, wherein the bail is rotatably attached to the pair of sliders and to the module housing.
- 21. The latch mechanism as recited in claim 18, wherein a rotational motion of the bail corresponds to substantially linear motion of the sliders.
- 22. The latch mechanism as recited in claim 18, wherein the pair of resilient elements bias the bail into a position where the sliders have engaged the corresponding structure of the port.